

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Previously Presented) A method for managing an audio system volume in a vehicle, the method comprising:

detecting, wirelessly, a radio frequency transmission having a selected frequency through a vehicle integrated sensor, wherein the selected frequency is indicative of a mobile telecommunications device communicating with a base transceiver station;

responsive to detecting the radio frequency transmission, determining, by the vehicle integrated sensor, whether a signal strength of the radio frequency transmission is greater than a predetermined threshold level, wherein the predetermined threshold level indicates that the mobile telecommunications device is located within the vehicle;

responsive to a determination that the signal strength of the radio frequency transmission is greater than the predetermined threshold level, reducing, by a controller, the audio system volume;

monitoring, by the vehicle integrated sensor, the radio frequency transmission to form a monitored transmission;

determining, by the vehicle integrated sensor, that a call has ended based on the monitored transmission; and

responsive to determining that the call has ended, restoring, by the controller, the audio system volume to a prior setting.

2. (Original) The method of claim 1, wherein the mobile telecommunications device is a global system for a mobile communications phone.

3. (Original) The method of claim 1, wherein the selected frequency has a range from about 890 MHz to about 960 MHz.

4. (Original) The method of claim 1, wherein the audio system volume is reduced to zero decibels.

5. (Original) The method of claim 1, wherein the audio system volume is reduced to a preselected volume.

6. (Original) The method of claim 1, wherein the sensor is an antenna configured to detect radio frequency signals.

7. (Original) The method of claim 1, wherein the vehicle is an automobile.

8. (Original) The method of claim 5, wherein the preselected volume is user configurable.

9-10. (Cancelled)

11. (Previously Presented) The method of claim 1, wherein the radio frequency transmission is a paging message transmitted to the mobile telecommunications device.

12-20. (Cancelled)